

WHAT IS CLAIMED IS:

1. A liquid composition, comprising:
 - a solute;
 - a solvent; and
 - a metal deactivator.
2. The liquid composition according to claim 1, the solute being an organic functional material.
3. The liquid composition according to claim 2, the organic functional material containing a luminescent material.
4. The liquid composition according to claim 2, the organic functional material being a macromolecule.
5. The liquid composition according to claim 2, the organic functional material being a constituent of an organic electroluminescent element.
6. The liquid composition according to claim 5, the constituent of the organic electroluminescent element containing an organic electroluminescent material.
7. The liquid composition according to claim 5, the constituent of an organic electroluminescent element containing a hole injection material.
8. The liquid composition according to claim 1, the metal deactivator being transparent or semitransparent.
9. The liquid composition according to claim 8, the metal deactivator being colorless.
10. The liquid composition according to claim 1, the metal deactivator having a high solubility or dispersibility in the solute, and having a high solubility or dispersibility in the solvent.
11. A method to form a film comprising:
 - mixing a solute, a solvent, and a metal deactivator to prepare the liquid composition of claim 1; and
 - depositing the liquid composition on a predetermined surface.
12. The method to form a film according to claim 11,
 - the metal deactivator having a high dispersibility and solubility in the solute and the solvent, and
 - the metal deactivator being discharged from a liquid discharge apparatus onto a predetermined surface to form a film.
13. A method to form a film, comprising:

depositing a first composition containing a solute and a solvent onto a predetermined surface to form a first film; and

forming a second film containing a metal deactivator on the first film.

14. The method to form a film according to claim 13, further comprising:

preparing a second composition containing the metal deactivator and a solvent;

delivering the second composition to a liquid discharge apparatus through a path; and

discharging the second composition from the liquid discharge apparatus onto the first film to provide the metal deactivator on the first film.

15. A film-forming apparatus, comprising:

a liquid composition-preparing unit to prepare a liquid composition containing a solute, a solvent, and a metal deactivator; and

a liquid discharge apparatus to discharge a liquid containing the liquid composition onto a predetermined surface.

16. A film-forming apparatus, comprising:

a liquid composition-preparing unit to prepare a liquid composition containing a material of an organic electroluminescent element, a solvent, and a metal deactivator; and

a liquid discharge apparatus to discharge a liquid containing the liquid composition onto a predetermined surface.

17. The film forming apparatus according to claim 15, further comprising:

a stage capable of movably supporting a base material having the predetermined surface.

18. An electro-optic device comprising:

a functional element containing a metal deactivator.

19. An electro-optic device comprising:

a functional element; and

a metal deactivating layer containing a metal deactivator on the functional element.

20. The film forming apparatus according to claim 18, the functional element being a luminescent element.

21. The film forming apparatus according to claim 20, the functional element being a luminescent material.

22. A method to manufacture an electro-optic device, comprising:

adding a metal deactivator to a solution containing a material of a functional

element and a solvent to prepare a liquid composition; and

depositing the liquid composition on a base material to form a film serving as a component of the functional element.

23. The method to manufacture an electro-optic device according to claim 22, the film being formed by discharging a liquid containing the liquid composition from a liquid discharge apparatus onto a base material.

24. A method to manufacture an electro-optic device, comprising:

depositing a first composition containing a material of the functional element and a solvent on a base material to form a first film being a component of the functional element; and

forming a second film containing a metal deactivator on the first film.

25. The method to manufacture an electro-optic device according to claim 24, the second film containing the metal deactivator, a second composition containing the metal deactivator and the solvent being prepared, and then, discharging a liquid containing the second composition from a liquid discharge apparatus onto the first film.

26. The method to manufacture an electro-optic device according to claim 22, the functional element being an organic electroluminescent element.

27. An organic electroluminescent device, comprising:
a plurality of material layers, at least one containing a metal deactivator.

28. The organic electroluminescent device according to claim 27, the metal deactivator being contained in a luminescent layer, which is one of the material layers of the organic electroluminescent device.

29. An organic electroluminescent device, comprising:
a plurality of material layers; and an
antioxidant layer containing a metal deactivator between predetermined two layers of the material layers.

30. A method to manufacture an organic electroluminescent device having a plurality of material layers, comprising:

adding a metal deactivator to a solution containing a material of at least one of the material layers and a solvent to prepare a liquid composition; and
forming the material layer of the liquid composition.

31. The method to manufacture an organic electroluminescent device according to claim 30, the material layer being formed by discharging a liquid containing the liquid composition from a liquid discharge apparatus.

32. A method to manufacture an organic electroluminescent device having a plurality of material layers, comprising:

forming a first material layer using a first composition containing a material of at least one of the material layers and a solvent; and

forming a second material layer containing a metal deactivator on the first material layer.

33. The method to manufacture an organic electroluminescent device according to claim 32, a second composition being prepared from the metal deactivator and a solvent, and a liquid containing the second composition being discharged onto the first material layer from the liquid discharge apparatus.

34. A device formed using the liquid composition described in claim 1.

35. A method to manufacture a device using the liquid composition described in claim 1.

36. The method to manufacture a device according to claim 35, further comprising:

the step of discharging a liquid essentially composed of the liquid composition from a liquid discharge apparatus.

37. An electronic apparatus, comprising:

the electro-optic device described in claim 18.

38. An electronic apparatus, comprising:

the organic electroluminescent device described in claim 27.